Infrastructure Issues and Plans

Five-Year View of Infrastructure

- Planning
 - EM cleanup program ending; transitioning to LTRA
 - Reactor D&D expected FY 06 08; BMRR remains SC
 - Adaptive reuse of NSLS space after NSLS-II
 - Recapitalization of permanent buildings
- Construction
 - SLI, Alt Financing, GPP, NY State
 - Research Support Building, Housing Renewal
 - Central Chilled Water capacity expansion
 - Utility distribution system lines and components





Infrastructure Issues and Plans

Five-Year View of Infrastructure (cont'd)

- Maintenance (Lab operating)
 - Will reach 2% MII in FY 06 (tracking to 1.7% goal in FY 05)
 - New maintenance management system on line (Maximo) improved efficiency in staff utilization; increased PM accomplishment
 - ESS&H, roofing, rehab laboratory spaces
- Utility Supply
 - Electric power
 - NYPA 7/05 6/08 at \$65/MWH; about \$9M/yr below local industrial tariff rate
 - Rates beyond this agreement will be our next focus
 - Oil/natural gas
 - Rise in international crude oil prices will drive gas prices and local electric rates (L.I. generation 100% fossil)
 - Availability of interstate gas directly to BNL delayed; affects cogeneration economics





Infrastructure Challenges & Strategies

Challenges	Strategies
Rehab of (permanent) Science Buildings/Laboratory spaces	SLI, GPP, and maintenance projects (MII@2%)NY State Participation
Electric Power Rates beyond July 2008	 Continuing dialog with NYPA, LIPA, ESDC (and IPPs as applicable) Evaluate Cogeneration: follow interstate gas availability
Reduce operating costs	 Shrink the footprint through space consolidation/demolition





RPV – DOE REVIEW

- In FY04 OCEM and LMI Associates reviewed BNL RPV's favorable result
- BNL Methodology
 - Used both MEANS DOE Models and MEANS FIMS Models
 - Used over 2,000 adjustments for cranes, elevators, fire protection, etc.
 - All results in database with MEANS reference numbers
 - Straightforward conversion to Costworks
 - Used CPV Methodology for buildings not matching models and for OSF
 - ENR Building Construction Index for buildings
 - ENR Construction Index for OSF



